

1. What is your name?

List all pairs of congruent angles and write the statement of proportionality for the corresponding sides.

2. $\triangle STU \sim \triangle CDE$

3. $\triangle LMN \sim \triangle GHI$

4. Quadrilateral QRST \sim Quadrilateral ABCD



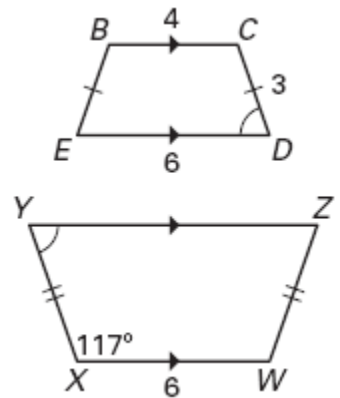
In the diagram quadrilateral $BCDE \sim$ quadrilateral $WXYZ$.

5. Find the scale factor of quadrilateral $BCDE$ to quadrilateral $WXYZ$.

6. Find the scale factor of quadrilateral $WXYZ$ to quadrilateral $BCDE$.

7. Find the length of XY .

8. Find $m\angle D$.

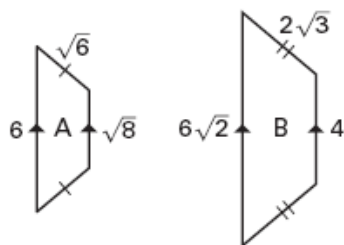


9. State the perimeter of quadrilateral $WXYZ$.

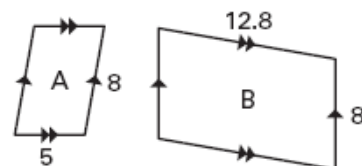
10. Find the ratio of the perimeter of $WXYZ$ to the perimeter of $BCDE$.

Decide whether the polygons are similar. If so, find the scale factor of Figure A to Figure B.

11.

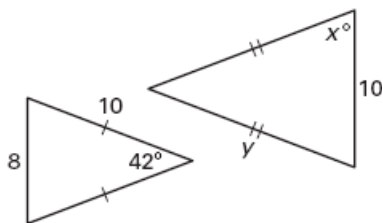


12.

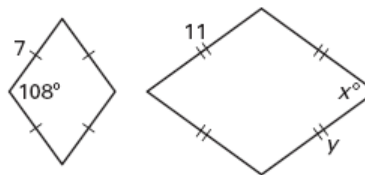


The two polygons are similar. Find the values of x and y .

13.



14.



15. The ratio of one side of $\triangle ABC$ to the corresponding side of similar $\triangle DEF$ is 5:8. The perimeter of $\triangle DEF$ is 96 inches. What is the perimeter $\triangle ABC$?

16. The perimeter of $\square ABCD$ is 60 centimeters. The perimeter of $\square EFGH$ is 15 centimeters and $\square ABCD \sim \square EFGH$. The lengths of two of the sides of $\square ABCD$ are 18 centimeters each. Find the scale factor of $\square ABCD$ to $\square EFGH$, and the lengths of the sides of $\square EFGH$.



Review.

Find the slope of the line that passes through the given points. *(Chapter 3 Section 6)*

17. $P(0, -7)$ & $(-6, -3)$

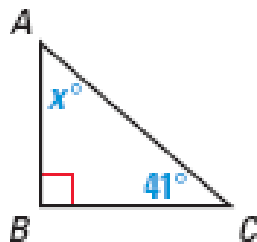
18. $S(-4, 5)$ & $(2, -2)$

19. $J(9, 4)$ & $K(2, 5)$

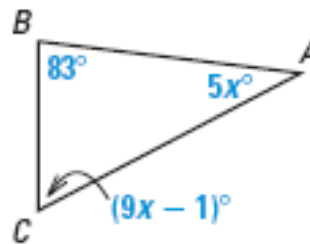
20. $Y(-1, 6)$ & $(5, -5)$

Find the value of x . *(Chapter 4 Section 1)*

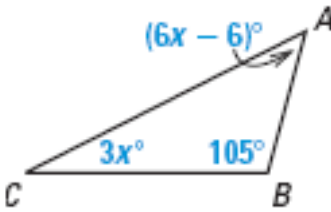
21.



22.



23. Find the value of x . (Chapter 4 Section 1)



Solve the proportion. (Chapter 8 Section 1)

24. $\frac{4}{y} = \frac{2}{19}$

25. $\frac{11}{x+2} = \frac{9}{x}$

26. $\frac{5}{24} = \frac{25}{z}$

27. $\frac{3x+7}{5} = \frac{4x}{6}$

